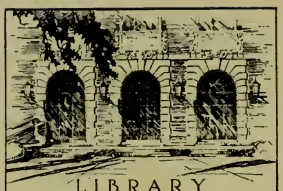

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ANNUAL LIST OF PUBLICATIONS OF THE FACULTY

May 1, 1939 — April 30, 1940

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UNIVERSITY
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BOOKS, ARTICLES, AND REVIEWS PUBLISHED BY THE FACULTY OF THE UNIVERSITY OF ILLINOIS

May 1, 1939—April 30, 1940

NOTE: The following list of publications, consisting of books, articles, and reviews, written by members of the staff of the University, and published during the year ended April 30, 1940, was compiled from lists supplied by the individual members. The academic titles indicate positions for 1940-1941 except those of persons no longer on the staff. An article by two or more persons of unequal rank is usually listed under the name of the one having the superior rank, cross-references being used under the names of the others. Numbers in parentheses are approximate numbers of words.

Adams, Leverett Allen, Ph.D., Professor of Zoology and Curator of the Museum of Natural History

ARTICLES:

Some characteristic otoliths of American Ostariophysi. *J. Morph.,* 66:3:497-527. (8000)

Adams, Roger, Ph.D., D.Sc., Professor of Organic Chemistry and Head of the Department of Chemistry

BOOKS:

With others:

Organic syntheses, vols. 19 and 20. John Wiley and Sons, N.Y., 1939, 1940. 105 and 113 pp.

ARTICLES:

With M. Hunt:

Structure of gossypol. XIX. Synthesis of 1,2-dihydroxy-3-isopropyl-6-benzoic acid. *J.A.C.S.,* 61:1132-33. (900)

With M. Hunt and B. R. Baker:

Structure of gossypol. XX. Synthesis of 1,2-dihydroxy-3-isopropyl-5-benzoic acid. *Ibid.,* 61:1134-37. (4700)

With B. R. Baker:

Structure of gossypol. XXI. Synthesis of 1,2-dimethoxy-3-isopropyl-4-benzoic acid and of apogossypolic acid. *Ibid.,* 61:1138-42. (5000)

With W. R. Dial:

Structure of gossypol. XXII. Gossypol ethers and their reduction products. *Ibid.,* 61:2077-82. (4900)

With T. A. Geissman:

Structure of gossypol. XXIII. Attempts to prepare desapogossypolone tetramethyl ether. Condensation of hexadiene-2,4 with dibenzoylethylene. *Ibid.,* 61:2083-89. (7200)

With T. L. Cairns:

Stereochemistry of biphenyls. XLVI. 2-substituted biphenyls. *Ibid.,* 61:2179-81. (3300)

Attempts to prepare optically active ethyleneimine derivatives containing an asymmetric nitrogen atom. *Ibid.,* 61:2464-67. (4100)

With G. C. Finger:

Stereochemistry of biphenyls. XLVII. Certain 3,6-di(2,4-dimethylphenyl)-hydroquinones and their derivatives. *Ibid.,* 61:2182-83. (2100)

Stereochemistry of biphenyls. XLIX. Comparison of the racemization rates of the 2,2′,6-nitro-, carboxy-, and methoxy-biphenyls. *Ibid.,* 61:2828-30. (2100)

Articles (*continued*)

With J. B. Hale:

Stereochemistry of biphenyls. XLVIII. A comparison of the racemization rates of three isomeric 2,2′,6-nitro-, carboxy-, methyl-biphenyls. *Ibid.,* 61:2825-28. (2200)

With P. H. Long and A. J. Johanson:

Sulfanilamide derivatives. I. *Ibid.,* 61:2342-46. (5900)

With P. H. Long and Allene Jeanes:

Sulfanilamide derivatives. II. *Ibid.,* 61:2346-49. (3300)

With E. F. Rogers:

The structure of monocrotaline, the alkaloid in *Crotalaria spectabilis* and *Crotalaria retusa.* I. *Ibid.,* 61:2815-19. (3000)

With E. F. Rogers and F. J. Sprules:

Structure of monocrotaline. II. Monocrotic acid obtained by alkaline hydrolysis of the alkaloid. *Ibid.,* 61:2819-21. (1400)

With E. F. Rogers and R. S. Long:

The structure of monocrotaline. III. Monocrotalic acid. *Ibid.,* 61:2822-24. (1600)

With M. W. Miller:

Restricted rotation in aryl olefins. I. Preparation and resolution of β-chloro-β-(2,4,6-trimethyl-3-bromophenyl)-α-methyl-acrylic acid. *Ibid.,* 62:53-56. (1900)

With M. H. Gold:

The Synthesis of 1,3-diphenyldihydroisobenzofurans, 1,3-diphenylisobenzofurans and *o*-dibenzoylbenzenes from the diene addition products to dibenzoylethylene. *Ibid.,* 62:56-61. (3300)

With M. Hunt and J. H. Clark:

Structure of cannabidiol, a product isolated from the marihuana extract of Minnesota wild hemp. I. *Ibid.,* 62:196-200. (3000)

Structure of cannabidiol. III. Reduction and cleavage. *Ibid.,* 62:735-37. (2900)

With C. K. Cain and H. Wolff:

Structure of cannabidiol. II. Absorption spectra compared with those of various dihydric phenols. *Ibid.,* 62:732-34. (2100)

REVIEWS:

Ausfuhrliches Lehrbuch der organischen Chemie, by W. Schlenk. *Ibid.,* 62:677-78. (470)

Adamstone, Frank Bolton, Ph.D., Associate Professor of Zoology

See Waldo Shumway.

Afremow, Melvin Louis, M.S., M.D., Associate in Medicine

ARTICLES:

With P. S. Rhoads and Elizabeth C. Straus:
Tuberculosis in nurses. *Amer. Rev. Tuberc.,* 40:4:444-51. (1800)

With P. S. Rhoads:
Sulfanilamide in treatment of sore throat due to hemolytic streptococci. *J.A.M.A.,* 114:942-43.

Alexander, Franz Gabriel, A.B., M.D., Associate Professor of Psychiatry

ARTICLES:

Sigmund Freud, 1856-1939. *Psychosomatic Med.,* 2:1:68-73.
Psychoanalysis revised. *Psychoanalytic Qt.,* 9:1:1-36.
Recollections of Berggasse 19. *Ibid.,* 9:2: 195-204.
Sigmund Freud. *Arch. Neurol Psychiat.,* 43: 575-80.

Alleman, Norville James, M.S., Special Research Associate in Engineering Materials

ARTICLES:

With C. P. Wampler:
Fatigue tests of wire. *J.A.S.T.M.,* Dec., 1939, pp. 13-18. (4000)

See also H. F. Moore and H. R. Thomas.

Allen, Harry Kenneth, Ph.D., Assistant Professor of Economics

BOOKS:

See M. H. Hunter.

ARTICLES:

Municipal finance. *Amer. Yr. Bk.,* 1940. (5000)
Chronic tax delinquency presents a challenging problem. *Bul. Nat. Tax. Assoc.,* 14: 9:270-75. (3500)
Improvements in tax collection procedures. *Ill. Tax Prob.,* pp. 245-53. (3700)

See also H. M. Gray.

REVIEWS:

Local government debt administration, by C. H. Chatters and A. M. Hillhouse. *J. Accy.,* 69:1:69. (700)

Almquist, Carl Oscar Gotfried, B.S., M.D., Associate in Surgery

ARTICLES:

With A. Lieberman:
Retroperitoneal sarcoma. *J. Ind. Med. Assoc.,* 32:8:417-19. (500)

Almy, Gerald Marks, Ph.D., Associate Professor of Physics

ARTICLES:

With H. Q. Fuller and G. D. Kinzer:
The fluorescence of diacetyl. *J. Chem. Phys.,* 8:1:37-45. (5500)

With H. Q. Fuller and L. D. Phillips:
The fluorescence of diacetyl: quantum yield and effect of iodine. *Ibid.,* 7:10:973. (600)

REVIEWS:

Molecular spectra and molecular structure. I. Diatomic molecules, by G. Herzberg. *Rev. Sci. Instruments,* 11:4:146. (500)

Amtman, Leo E., B.S., M.D., Associate in Medicine

ARTICLES:

With K. A. Meyer:
Treatment of Friedlander's septicemia by sulfapyridine, with recovery. *J.A.M.A.,* 113: 1641-42. (1000)

Anderson, Harold Homer, Ph.D., Assistant Professor of Psychology

ARTICLES:

Domination and social integration in the behavior of kindergarten children and teachers. *Genet. Psych. Mono.,* Aug. 1939, pp. 287-385.
Mental hygiene and child welfare. Chap. 20 in *Modern Marriage,* ed. by M. Jung. F. S. Crofts, N.Y., 1940.
The measurement of domination and of socially integrative behavior in teachers' contacts with kindergarten children. *Child Develop.,* 10:2:73-89. (8600)
Domination and social integration in the behavior of kindergarten children in an experimental play situation. *J. Exp. Educ.,* 8:2:123-31. (4100)
An examination of the concepts of domination and integration in relation to dominance and ascendance. *Psych. Rev.,* 47:1: 21-37. (6700)
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Educational implications of research in dominative and socially integrative behavior. *J. Educ. Soc.,* 13:8:490-501. (3000)
Must children obey? *Nat. Parent-Teacher,* 34:6:27-29. (2250)

Anderson, Harry Warren, Ph.D., Professor of Pomological Pathology

ARTICLES:

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Some suggestions concerning the apple spray schedule for 1940. *Ibid.,* 73:345-51. (3400)
History of chestnut blight in Illinois. *Northern Nut Growers' Assoc., 29th An. Rpt.,* 1938, pp. 78-82. (1600)
Reports on apple scab development: Illinois. *Plant. Dis. Rptr.,* 23:151. (200)
Some reports on diseases of peach: peach leaf curl in Illinois. *Ibid.,* 23:152. (75)
Reports on the development of apple scab: Illinois. *Ibid.,* 23:187. (150)
Reports on fire blight: Illinois. *Ibid.,* 23: 188. (150)
Notes on the cedar rusts: Illinois. *Ibid.,* 23:189. (150)
Reports on peach diseases: leaf curl and bacterial spot in Illinois. *Ibid.,* 23:189. (200)
Other reports on fruit diseases: orange rust on wild blackberries in Illinois. *Ibid.,* 23: 191. (100)
Apple rust on fruit in Illinois. *Ibid.,* 23:258. (250)
Apple blotch in Illinois. *Ibid.,* 23:259. (200)
Apple scab. Univ. Ill. Dept. Hort. Mimeo., Mar., 1940. (1800)

With W. A. Ruth and W. P. Flint:
The season of 1939. *Trans. Ill. Hort Soc.,* 73:43-62. (10,000)

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Directions for spraying fruits in Illinois. *Ibid.,* 73:63-99. (15,000)
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With D. Powell:
Spray injury on apples, 1939 experiments. *Trans. Ill. Hort. Soc.,* 73:252-60. (3200)

With H. F. Seifert:
Yellow-red virosis on chokecherry in Illinois. *Plant Dis. Rptr.,* 23:328. (300)

Andrews, Andrew Irving, Ph.D., Professor of Ceramic Engineering

ARTICLES:

Enameled chemical equipment. *Chem. Met. Eng.,* 46:7:406-10. (4700)

Glass-lined chemical equipment. *Trans. Amer. Instit. Chem. Eng.,* 35:4:473-88. (4500)

Developments in ceramics. *Bul. Amer. Cer. Soc.,* 18:9:333-38. (5000)

With B. W. King:

Identity and amounts of fluoride crystals present in enamels. *J. Amer. Cer. Soc.,* 22:4:123-33. (9000)

Mechanism of mill-added opacity in porcelain enamels. *Ibid.,* 22:6:173-76. (2500)

With E. W. Dietterle:

Effect of enamel on the strength of enameling iron. *Ibid.,* 23:1:29-32. (2500)

With C. H. Zwermann:

Relation of particle size and characteristics of light reflected from porcelain enamel surfaces. *Ibid.,* 23:4:93-102. (8000)

Anell, Esther Willard, A.B., B.L.S., Serial Reviser in the Catalog Department of the Library

ARTICLES:

7 catalog cards for monographs in foreign serial publications, etc. Printed by the Library of Congress. (475)

Appleman, Milo Don, Ph.D., Assistant in Soil Biology

See O. H. Sears.

Arnold, Lloyd, A.M., M.D., Professor of Bacteriology and Public Health

ARTICLES:

With A. W. Turner:

Factors involved in the microbic invasion of hen's eggs. *U.S. Egg and Poultry Mag.,* 45:10:599-601. (3500)

Ashby, Robert Childers, Ph.D., Professor of Livestock Marketing

ARTICLES:

Livestock price levels our main problem. *An. Rpt. Chicago Prod. Com. Assoc.,* 1938, pp. 44-60. (8300)

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Illinois stockmen patronize central markets. *Ill. Farm Econ.,* 59:337-38. (620)

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With S. Bull and R. J. Webb:

Retail sale of grade-stamped beef in Illinois. *Ibid.,* 1121, pp. 47-50. (2500)

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Motor truck cost studies, 1939. *Ibid.,* 1131. (5000)

With E. C. Hedlund:

Consumers and graded beef. *Ill. Farm Econ.,* 57:317-19. (1500)

With S. Bull and E. C. Hedlund:

Consumer attitudes toward government grade-stamped and packer-branded beef. *Proc. Amer. Soc. Animal Prod.,* 1939, pp. 329-32. (1750)

Astell, Louis A., M.S., Instructor in Education, Teacher of Science in University High School, and Supervisor of Science Aids Service

ARTICLES:

Audio-visual aids for teacher training in chemistry. *Centralight* (Central State Teachers Col., Mt. Pleasant, Mich.), 9:3 (2000)

JOURNALS EDITED:

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Audrieth, Ludwig Frederick, Ph.D., Associate Professor of Chemistry

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With J. Kleinberg and W. A. Taebel:

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With H. H. Sisler:

The preparation of sulfamic acid by the hydroxylamine-sulfur dioxide reaction. *Ibid.,* 61:3389-91. (3000)

The action of liquid ammonia upon sulfur trioxide addition compounds. *Ibid.,* 61: 3392-93. (2000)

With M. Sveda, H. H. Sisler, and M. Josetta Butler:

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Babbitt, Harold Eaton, M.S., Professor of Sanitary Engineering

ARTICLES:

With D. H. Caldwell:

Laminar flow of sludges in pipes, with special reference to sewage sludge. *Ill. Eng. Exp. Sta. Bul.,* 319. 60 pp.

Bachem, Albert, Ph.D., Professor of Biophysics

ARTICLES:

Observations on short wave heat. *Arch. Phys. Ther.,* 21:4:197-202. (3000)

The genesis of absolute pitch. *J. Acous. Soc. Amer.,* 11:4:434-39. (3500)

Badger, Alfred Earl, Ph.D., Research Assistant Professor of Ceramic Engineering

ARTICLES:

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With R. L. Shute:

Portland cement in glass batches. *Ibid.,* 21: 1:28. (750)

With B. W. King, Jr.:

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With H. Thurnauer:

Dielectric loss of glass at high frequencies. *J. Amer. Cer. Soc.,* 23:1:9-12. (2000)

With W. Weyl and A. G. Pencus:

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Baer, Reinhold, Ph.D., Associate Professor of Mathematics

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Bailar, John Christian, Jr., Ph.D., Associate Professor of Chemistry

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With J. P. McReynolds:

The stereochemistry of complex inorganic compounds. V. The reaction of carbonates with dichloro-dipropylenediamine cobaltic chloride. A new method of determining relative configurations. *Ibid.*, 61:3199-3203. (3100)

With D. F. Peppard:

The stereochemistry of complex inorganic compounds. VI. A study of the stereoisomers of dichloro-diamino-ethylenediamine cobaltic ion. *Ibid.*, 62:105-09. (4000)

The stereochemistry of complex inorganic compounds. VII. The mechanism of the Walden inversion in some reactions leading to the formation of the carbonato-diethylenediamino cobaltic ion. *Ibid.*, 62: 820. (3100)

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Bailey, Percival, Ph.D., M.D., Professor of Neurology and Neurological Surgery

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Baker, Frank Collins, B.S., Curator of the Museum of Natural History, *Emeritus*

BOOKS:

Fieldbook of Illinois land snails. Ill. Nat. Hist. Surv. Manual 2, 1939. 166 pp.

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Land and freshwater Mollusca from western Ontario. *Can. J. Res.*, D:17:87-102. (6700)

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Baker, Robert Horace, Ph.D., D.Sc., Professor of Astronomy and Head of the Department

BOOKS:

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Balduf, Walter Valentine, Ph.D., Associate Professor of Entomology

BOOKS:

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REVIEWS:

A contribution to the biology of North American vespine wasps, by C. D. Duncan. *J. Econ. Ent.*, 32:3:472.

Baldwin, Edward Chauncey, Ph.D., Professor of English, *Emeritus*

ARTICLES:

Shook the arsenal—a note on *Paradise Regained. Philol. Qt.*, 18:2:218-22. (2000)

Our friends the books. *Ill. Alum. News*, 17:9. (2500)

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Palestine today, by E. Grant. *Nat. Jewish Mo.*, 53:11. (300)

Baldwin, Thomas Whitfield, Ph.D., Professor of English

ARTICLES:

Shakespeare facsimiles. *London Times Lit. Sup.*, May 6, 1939, p. 265. (300)

Bamberger, Arrie, B.S., M.D., Associate Professor of Surgery

ARTICLES:

Head injuries. *Ill. Med. J.*, 77:2:159-62.

Bane, J. Lita, A.M., D.Sc., Professor of Home Economics and Head of the Department, and Vice-Director of the Home Economics Extension

ARTICLES:

Comment (on "Undergraduate and graduate preparation for home economics research," by Agnes F. Morgan). *J. Home Econ.*, 31:10:693-95. (1500)

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Barlow, Reuel Richard, A.M., Professor of Journalism

ARTICLES:

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Barnes, Broda Otto, Ph.D., M.D., Assistant Professor of Medicine and of Physiology

ARTICLES:

With F. K. Hick:

Rapid recovery from type 13 lobar pneumonia treated with rabbit serum. *J.A.M.A.*, 113:1875. (500)

BARNES, B. O.—Articles (*continued*)
With R. W. Keeton:
Experimental obesity. *Proc. Amer. Physiol. Soc.*, 1940.
See also T. Cornblect.

Barrett, William Christopher, Ph.D., Instructor in Philosophy
ARTICLES:
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Bartholomew, Harland, C.E., Non-Resident Professor of Civic Design
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Bartlett, James Holley, Jr., Ph.D., Associate Professor of Theoretical Physics
ARTICLES:
Stopping power of mercury and of nitrogen for cosmic-ray electrons. *Phys. Rev.* 55: 9:803-07. (3600)
With R. E. Watson:
Elastic scattering of fast electrons by heavy elements. *Ibid.*, 56:6:612. (450)

Bartow, Virginia, Ph.D., Assistant Professor of Chemistry
ARTICLES:
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A history of chemistry, by F. J. Moore (rev. by W. T. Hall). *J.A.C.S.*, 62:235. (350)

Bauer, Frederick Charles, Ph.D., Professor of Soil Fertility
ARTICLES:
Plowing dates as they affected the abundance of corn root aphids at Clayton, Illinois. *Amer. Soc. Agron.*, 31:8:695-97. (900)

Beard, J. Howard, A.M., M.D., Professor of Hygiene, Head of the Department of Health Service, and University Health Officer
ARTICLES:
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The doctor looks at swimming. *Rpt. 1st An. Swimming Pool Conf.*, pp. 2-10. (6000)

Berdahl, Clarence Arthur, Ph.D., Professor of Political Science
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Reviews (*continued*)
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Berg, Max, M.S., M.D., Instructor in Pathology
ARTICLES:
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Besancon, Robert Martin, A.M., Associate in Physics in the College of Pharmacy
BOOKS:
With L. D. Powers:
Laboratory manual in general physics. Edwards Bros., Ann Arbor, Mich., 1939. 145 pp.

Bevier, Isabel, Ph.M., D.Sc., Professor of Home Economics, *Emerita*
ARTICLES:
Recollections and impressions of the beginnings of the department of home economics at the University of Illinois. *J. Home Econ.*, 32:5:292-97. (1200)

Birch, Carroll LaFleur, M.S., M.D., Assistant Professor of Medicine
ARTICLES:
With F. F. Snider:
Tooth extraction in hemophilia. *J. Amer. Dent. Assoc.*, 26:1933-42.
See also C. M. McKenna.

Bisesi, Joseph Louis, M.S., E.E., Special Research Associate in Engineering Materials
See H. F. Moore.

Black, Dorothy Miller, A.M., Reference Assistant in the Library
ARTICLES:
Some problems in the evaluation of subscription books. *Ill. Lib.*, 21:12:42-45. (2100)

Blair, Glenn Myers, Ph.D., Associate in Education
ARTICLES:
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Development of scientific thinking through general science. *Sch. Rev.*, 47:695-701. (2500)

Blanchard, William Oscar, Ph.D., Professor of Geography
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PRESS

BOOKS, ARTICLES, AND REVIEWS PUBLISHED BY THE FACULTY OF THE UNIVERSITY OF ILLINOIS

May 1, 1940—April 30, 1941

NOTE: The following list of publications, consisting of books, articles, and reviews, written by members of the staff of the University, and published during the year ended April 30, 1941, was compiled from lists supplied by the individual members. The academic titles indicate positions for 1941-1942 except those of persons no longer on the staff. An article by two or more persons of unequal rank is usually listed under the name of the one having the superior rank, cross-references being used under the names of the others. Numbers in parenthesis indicate the approximate numbers of words.

Aaronson, Abe Louis, M.S., M.D., Instructor in Medicine

ARTICLES:

With S. S. Rubin, M. A. Kaplan, and S. M. Feinberg:
Potassium salts in the treatment of pollinosis. *J.A.M.A.,* 114:2359-60.

Adams, Roger, Ph.D., Professor of Organic Chemistry and Head of the Department of Chemistry

ARTICLES:

With R. B. Wearn:
Diene addition products to diaroylethylenes and their transformation products. II. *J.A.C.S.,* 62:1233-37. (1750)

With H. Wolff, C. K. Cain, and J. H. Clark:
Structure of cannabidiol. IV. The position of the linkage between the two rings. *Ibid.,* 62:1770-75. (2500)
Structure of cannabidiol. V. Position of the alicyclic double bonds. *Ibid.,* 62: 2215-19. (1750)

With D. C. Pease, C. K. Cain, B. R. Baker, J. H. Clark, H. Wolff, and R. B. Wearn:
Conversion of cannabidiol to a product with marihuana activity. A type reaction for synthesis of analogous substances. Conversion of cannabidiol to cannabinol. *Ibid.,* 62:2245-46. (150)

With D. C. Pease, C. K. Cain, and J. H. Clark:
Structure of cannabidiol. VI. Isomerization of cannabidiol to tetrahydrocannabinol, a physiologically active product. Conversion of cannabidiol to cannabinol. *Ibid.,* 62: 2402-05. (1500)

With B. R. Baker:
Structure of cannabidiol. VII. A method of synthesis of a tetrahydrocannabinol which possesses marihuana activity. *Ibid.,* 62: 2405-08. (1500)
Structure of cannabinol. IV. Synthesis of two additional isomers containing a resorcinol residue. *Ibid.,* 62:2208-15. (3500)
Structure of cannabinol. V. A second method of synthesis of cannabinol. *Ibid.,* 62:2401. (300)
Structure of gossypol. XXV. Synthesis of desapogossypolone tetramethyl ether. *Ibid.,* 63:535-37. (1250)

With S. Loewe, D. C. Pease, C. K. Cain, R. B. Wearn, B. R. Baker, and H. Wolff:
Structure of cannabidiol. VIII. Position of the double bonds in cannabidiol. Marihuana activity of tetrahydrocannabinols. *Ibid.,* 62:2566-67. (200)
Marihuana. *Science,* 92:115-19. (600)

Articles (*continued*)

With M. H. Gold:
Absorption and fluorescence spectra of certain dihydroisobenzofurans and isobenzofurans. *J.A.C.S.,* 62:2038-42. (2000)

With H. M. Teeter:
Stereochemistry of biphenyls. L. Comparison of the interference of a methoxyl and an hydroxyl group. *Ibid.,* 62:2188-90. (1300)

With L. J. Dankert:
Restricted rotation in arylamines. I. Preparation and resolution of n-succinyl-n-methylbromomesidine. *Ibid.,* 62:2191-93. (1400)

With D. C. Pease and J. H. Clark:
Isolation of cannabinol, cannabidiol and quebrachitol from red oil of Minnesota wild hemp. *Ibid.,* 62:2194-96. (1400)

With D. C. Pease, J. H. Clark, and B. R. Baker:
Structure of cannabinol. I. Preparation of an isomer, 3-hydroxy-1-*n*-amyl-6,6,9-trimethyl-6-dibenzopyran. *Ibid.,* 62:2197-2200. (1500)

With C. K. Cain and B. R. Baker:
Structure of cannabinol. II. Synthesis of two new isomers, 3-hydroxy-4-*n*-amyl- and 3-hydroxy-2-*n*-amyl-6,6,9-trimethyl-6-dibenzopyrans. *Ibid.,* 62:2201-04. (1500)

With B. R. Baker and R. B. Wearn:
Structure of cannabinol. III. Synthesis of cannabinol, 1-hydroxy-3-*n*-amyl-6,6,9-trimethyl-6-dibenzopyran. *Ibid.,* 62:2204-07. (1750)

With R. S. Long:
Structure of monocrotaline. IV. Monocrotalic acid. *Ibid.,* 62:2289-94. (2500)

With N. Kornblum:
Stereochemistry of biphenyls. LI. Resolution of diphenic acids having many-membered bridges across the 5,5′-positions: a novel type of restricted rotation. *Ibid.,* 63:188-200. (6000)

With E. F. Rogers:
Structure of monocrotaline. V. Retronecine, a derivative of 1-methylpyrrolizidine. *Ibid.,* 63:228-36. (3750)
Structure of monocrotaline. VI. Retronecine, platynecine, and retronecanol. *Ibid.,* 63:537-41. (1750)

With T. A. Geissman, B. R. Baker, and H. M. Teeter:
Structure of gossypol. XXIV. Attempts to prepare desapogossypolone tetramethyl ether. *Ibid.,* 63:528-34. (3250)

With D. E. Burney:
The reactions of 2,8-dihydroxynaphthaldehyde. *Ibid.,* 63:1103-07. (1500)

Adamstone, Frank Bolton, Ph.D., Associate Professor of Zoology

Books:

With W. Shumway:
A laboratory manual of vertebrate embryology. John Wiley and Sons, N.Y., 1940. 87 pp.

Articles:

Brain degeneration in young chicks reared on an iron-treated vitamin E deficient ration. *Arch. Path.,* 31:5:603-12. (4000)

Erythrophagocytosis in chicks reared on a vitamin E deficient ration supplemented with halibut liver oil. *Ibid.,* 31:5:613-21. (3500)

Histologic evidence indicative of the natural occurrence of vitamin E deficiency in the chick. *Ibid.,* 31:5:622-26. (2000)

Alexander, Franz Gabriel, A.B., M.D., Associate Professor of Psychiatry

Articles:

A jury trial of psychoanalysis. *Abnormal and Social Psychol.,* 35:3.

Psychiatric aspects of war and peace. *Amer. J. Sociol.,* 46:4:504-20.

The voice of the intellect is soft. *Psychoanalytic Rev.,* 28:1:12-29.

Psychiatric contributions to crime prevention. *Federal Probation,* 4:2:10-16.

With L. J. Saul:
Respiration and personality—a preliminary report. *Psychosomatic Med.,* 2:2:110-18.

Allen, Harry Kenneth, Ph.D., Associate Professor of Economics and Director of Bureau of Economics and Business Research

Books:

With M. H. Hunter:
Personalizing public finance. Harpers, N.Y., 1940. 48 pp.

Articles:

Municipal finance. *Amer. Yr. Bk.,* 1941. (5000)

Property tax collection and delinquency. *Ill. Law Rev.,* 35:6:698-715. (8500)

Allen, Joseph Heatly Dulles, Jr., Ph.D., Instructor in French

Articles:

Vulgar Latin *-tatosum,* Portuguese *-dadoso* and *-doso. Language,* 16:2:157-60. (1000)

Allen, Raymond Bernard, M.D., Ph.D., Executive Dean of the Chicago Colleges

Articles:

Universities and the people's health (abstract). *J.A.M.A.,* 116:15:1720. (770)

Almy, Gerald Marks, Ph.D., Associate Professor of Physics

Articles:

With Scott Anderson:
Lifetime of fluorescence in diacetyl and acetone. *J. Chem. Phys.,* 8:10:805-14. (6500)

Anderson, A. Marie, A.M., Associate in Art

Books:

Syllabus of design and color (rev. ed.). Stipes Pub. Co., Champaign, 1941. 144 pp.

Anderson, Archibald Watson, Ph.D., Assistant Professor of Education

Articles:

Historical development of the secondary school curriculum in Dayton. *Montgomery County Survey.* Pub. Admin. Serv. (Chicago), 1940, pp. 53-73. (13,550)

Articles (*continued*)

With I. Thut and F. Thomas:
Curriculum of the public secondary schools in Dayton and Montgomery County. *Ibid.,* pp. 73-98. (16,450)

With R. H. Morrison:
Teacher education. II. Administration organization. *Encyc. Educ. Res.,* pp. 1204-08. (3600)

With E. W. Anderson and others:
Field services to schools and communities. *Educ. Res. Bul.,* 19:9:245-71. (10,600)

Variations in field service. *Ibid.,* 19:9:271-74. (1435)

With D. H. Eikenberry and others:
The development and operation of democratic administration. *Ibid.,* 19:16:449-78. (12,300)

Anderson, Chester Reed, A.M., Associate Professor of English

Books:

With A. G. Saunders:
Business reports (2d ed.). McGraw-Hill Book Co., N.Y., 1940. 468 pp.

Articles:

Problems and issues in teaching business writing. *Comm. Teach. Fed. Yr. Bk.,* 1941. (2000)

So you want a job. *Reg. Phi Lambda Upsilon* (Chemical), March, 1941. (2000)

Reviews:

How to write better business letters (2d ed.), by E. A. Buckley. *Amer. Bus. Writing Assoc. Bul.,* Feb., 1941, p. 5. (250)

Business writing, by Parkhurst and Davis. *Ibid.,* Dec., 1940, p. 13. (275)

Anderson, Harold Homer, Ph.D., Associate Professor of Psychology

Articles:

Adjustment in the family situation: a review of research in mental hygiene published 1937-1940. *Rev. Educ. Res.,* 10:5:414-20. (10,600)

The new baby. *Nat. Parent-Teacher,* 35:7:25-27. (2100)

Measuring democratic and undemocratic behavior. *Childhood Educ.,* 17:8:350-53. (2500)

Reviews:

Intelligence: its nature and nurture. *Parents Mag.,* Dec., 1940. (250)

Anderson, Harry Warren, Ph.D., Professor of Pomological Pathology

Articles:

Bramble fruits. *Ill. Agr. Exp. Sta. Circ.,* 508:45-65. (12,000)

Apple tree anthracnose in Illinois. *Plant Disease Reporter,* 24:475. (350)

With H. F. Seifert:
Yellow-red virosis on choke cherry in Illinois. *Ibid.,* 24:16:340-41. (375)

With H. H. Thornberry:
Pink-root disease of onions on tomatoes. *Ibid.,* 24:19:383-84. (375)

With D. Powell:
Apple scab in Illinois. *Ibid.,* 25:8:237-38. (700)

Eradicant sprays for apple scab. *Ill. Hort. Soc. News Letter,* No. 6, Sept., 1940. (800)

Andrews, Andrew Irving, Ph.D., Professor of Ceramic Engineering

Articles:

With B. Niklewske, Jr.:
Wet-process leadless cast-iron enamels. *J. Amer. Cer. Soc.,* 23:178-85. (2200)

ANDREWS, A. I.—Articles (*continued*)

With B. W. King, Jr.:
Reactions taking place during smelting of superopaque antimony enamels. *Ibid.*, 23: 225-28. (1500)
Development of opacity in superopaque enamels, *Ibid.*, 23:228-32. (1500)
Viscous properties of soda-boric oxide-silica glasses at temperatures from 900° to 1500° F. *Ibid.*, 23:232-35. (1100)
Discussion of Zapffe and Sims hydrogen studies. *Ibid.*, 23:295. (330)

With R. W. Gates:
Solubility of a zirconium oxide opacifier in enamel glasses. *Ibid.*, 23:288-90. (1300)

Anell, Esther Willard, A.B., B.L.S., Serial Reviser in the Library

ARTICLES:
38 catalog cards for monographs in serial publications. Printed by the Library of Congress. (1800)

Arnold, Lloyd, M.S., M.D., Professor of Bacteriology and Public Health

ARTICLES:
With M. M. Schapiro:
The influence of general anaesthetic agents upon the bacterial flora of the upper respiratory tract. *Anasthesiology*, 2:1: 80-89. (2500)

With M. E. Warner:
Morphological, biochemical, and serologic study of aciduric bacilli. *J. Dent. Res.*, 20:1:49-58. (1000)

Ashby, Robert Childers, Ph.D., Professor of Livestock Marketing

ARTICLES:
Four years of motor-truck cost studies. Univ. Ill. Dept. Agr. Econ. Mimeo., 1438. 9 pp. (4500)
Selling at home versus selling at central markets. *Nat. Wool Grower*, 31:2:40-42. (3000)
How livestock prices are made. *Co-Operative Shipper*, Mar., 1941, pp. 4-6. (2300)

Astell, Louis Alexander, M.S., Instructor in Education, Teacher of Science in University High School, and Supervisor of Science Aids Service

ARTICLES:
Radio's place in the school. *Educ. Press Bul.*, 31:7-8, 18-19. (1700)

Audrieth, Ludwig Frederick, Ph.D., Associate Professor of Chemistry

ARTICLES:
The renaissance of inorganic chemistry. *Sci. Teach.*, 7:4:5-9. (2500)

Avery, Thomas Burt, M.S., Assistant in Poultry Husbandry

ARTICLES:
With H. M. Scott and R. M. Conrad:
Blood calcium levels of the fowl following injections of theelin. *Endocrin.*, 27:1: 83-86. (1000)
Effect of parathyroid preparation on the calcium metabolism of the fowl. *Poultry Sci.*, 19:5. (600)
Effect of parathyroid preparation on the blood calcium of the fowl. *Ibid.*, 19:5. (600)

Babbitt, Harold Eaton, M.S., Professor of Sanitary Engineering

BOOKS:
Sewerage and sewage treatment (5th ed.). John Wiley and Sons, N.Y., 1940. 648 pp.

ARTICLES:
With D. H. Caldwell:
Turbulent flow of sludges in pipes. *Ill. Eng. Exp. Sta. Bul.*, 323. 44 pp.
The flow of muds, sludges, and suspensions in circular pipe. *Trans. A.I.C.E.*, 37:2: 237-66. (9000)

Badger, Alfred Earl, Ph.D., Research Assistant Professor of Ceramic Engineering

ARTICLES:
With R. R. Rough:
Improving durability of glass surfaces by treatment with volatile salts. *Glass Ind.*, 22:109-10. (1500)

With H. R. Pinnow:
Vanadium and chromium oxides in refractories as aids in the elimination of cords in glass. *Ibid.*, 22:161-62. (1500)

Badger, Carroll John, B.S., Associate in Soil Experiment Fields

See W. L. Burlison.

Baer, Reinhold, Ph.D., Associate Professor of Mathematics

ARTICLES:
A Galois theory of linear systems over commutative fields. *Amer. J. Math.*, 62:551-88. (21,000)
Sylow theorems for infinite groups. *Duke Math. J.*, 6:598-614. (12,000)
Abelian groups that are direct summands of every containing abelian group. *Bul. Amer. Math. Soc.*, 46:800-06. (4000)
Nets and groups II. *Trans. Amer. Math. Soc.*, 47:435-39. (2800)
Nilpotent groups and their generalizations. *Ibid.*, 47:393-434. (25,000)

REVIEWS:
Structure of algebras, by A. Adrian Albert. *Bul. Amer. Math. Soc.*, 46:587-91. (3000)

Bailar, John Christian, Jr., Ph.D., Associate Professor of Chemistry

ARTICLES:
With D. F. Peppard:
The stereochemistry of complex inorganic compounds VII. The mechanism of the Walden inversion in some reactions leading to the formation of the carbonato-diethylenediamino cobaltic ion. *J.A.C.S.*, 62:820. (3100)

REVIEWS:
Modern aspects of inorganic chemistry, by H. J. Emeleus and J. S. Anderson. *J. Chem. Educ.*, 17:197. (600)
Laboratory exercises in general chemistry, by J. F. Norris and K. L. Mark. *Ibid.*, 17:197. (250)
General college chemistry, by L. B. Richardson and A. J. Scarlett, *Ibid.*, 17:500. (350)

Bailey, Harold Wood, Ph.D., LL.D., Assistant Professor of Mathematics and Director of the Personnel Bureau

ARTICLES:
Disciplinary procedures. *Encyc. Educ. Res.*, 1941, pp. 294-96. (2100)

Bailey, Percival, Ph.D., M.D., Professor of Neurology and Neurological Surgery

ARTICLES:

Tumors involving the hypothalamus and their clinical manifestations. *Res. Pub. Assoc. Nerv. Ment. Dis.,* 20:713-24.

Introduction to *Head Injuries,* by Grass and Ehrlich, pp. xiii-xvii. Hoeber, N.Y., 1940.

Indications for the surgical treatment of intracranial tumor. *Southern Surgeon,* 9:539-52.

With Dusser de Barenne, Garol, and McCulloch:

Sensory cortex of the chimpanzee. *Amer. J. Physiol.,* 129:303-04; *J. Neurophysiol.,* 3:469-85.

With Sweet:

Effects on respiration, blood pressure, and gastric motility of stimulation of the orbital surface of the frontal lobe. *J. Neurophysiol.,* 3:276-81.

With W. G. Haynes:

Location of the respiratory inhibitory center in the cerebral cortex of the dog. *Proc. Soc. Exp. Biol. Med.,* 45:686-87.

Baily, Henry Heaton, A.M., C.P.A., Associate Professor of Accountancy

BOOKS:

Illustrative problem in elementary accounting. D. C. Heath and Co., Boston, 1941. 96 pp.

Baker, Frank Collins, B.S., Curator of the Museum of Natural History, *Emeritus*

ARTICLES:

A new anatomical classification of the Planorbidae (abstract). *10th An. Meet. Amer. Malacological Union,* pp. 4-5. (200)

A new species of Drepanotrema and some preoccupied planorbid names. *Nautilus,* 54:96-97. (400)

Balduf, Walter Valentine, Ph.D., Associate Professor of Entomology

ARTICLES:

More ambush bug prey records (Hemiptera). *Bul. Brooklyn Ent. Soc.,* 35:161-69. (2280)

Ambush bug studies. A summary. *Trans. Ill. Acad. Sci.,* 33:206-08. (1900)

Take offs by prey-laden wasps. (Hym: Pompilidae?, Sphecidae). *Entom. News,* Apr., 1941, pp. 91-92. (700)

Life history of *Phymata pennsylvanica americana* Melin (Phymatidae. Hemiptera). *Ann. Entom. Soc. Amer.,* 34:1:204-14. (5000)

Baldwin, Thomas Whitfield, Ph.D., Professor of English

ARTICLES:

Light on the dark lady. *Pub. Mod. Lang. Assoc.,* 55:599-601. (900)

REVIEWS:

Elizabethan revenge tragedy 1587-1642, by F. T. Bowers. *J. Engl. Germ. Philol.,* 40: 285-90. (2500)

Bane, J. Lita, A.M., D.Sc., Professor of Home Economics and Head of the Department, and Vice-Director of Home Economics Extension

ARTICLES:

Milestones and guideposts in agriculture and home economics. *J. Home Econ.,* 33:3: 148-51. (2200)

Articles (*continued*)

Education for living. *Educ. News Bul.,* 11: 1:7-10. (1200)

Home economics in the world crisis. *Omicron Nu,* Spring, 1941, pp. 18-20. (1200)

Home making education. Pages 9-10 in *The Education of Women in a Democracy,* Inst. Women's Professional Relations, New London, Conn., 1940. (1200)

Barker, Roger Garlock, Ph.D., Assistant Professor of Education

BOOKS:

With T. Dembo and K. Lewin:

Frustration and regression. Univ. Iowa Studies in Child Welfare, vol. 18, no. 1, 1941. 328 pp.

ARTICLES:

Gestalt psychology. *Encyc. Educ. Res.,* pp. 487-88. (2000)

Barnes, Broda Otto, Ph.D., M.D., Assistant Professor of Medicine and of Physiology

See R. W. Keeton.

Bartlett, Roland Willey, Ph.D., Associate Professor of Agricultural Economics

ARTICLES:

Buying milk on a butter, ice cream, and manufactured milk basis. Ohio Dairy Products Assoc. Mimeo., Jan. 21, 1941. 9 pp.

Store distribution and use of paper containers as ways for increasing the consumption of milk (abstract). Univ. Ill. Dept. Agr. Econ. Mimeo., 1585, pp. 23-33. (4400)

Facts pertaining to exports and prices of different dairy products. *Ibid.,* 1637a. 6 pp.

Sound fluid milk pricing. *Amer. Milk Rev.,* 3:3:56.

Better demand for more dairy products. *Dairyman's J.,* Aug., 1940, p. 14.

Flexible plan for milk pricing. *Ibid.,* Oct., 1940, p. 6.

Maintaining stability in the market-milk industry through use of flexible prices. *Ill. Farm Econ.,* 62:369-76. (3700)

Increasing milk consumption by lowering distribution costs. *Ibid.,* 66:421-28. (3500)

Governmental regulation of the sale of milk. Univ. Ill. Dept. Agr. Econ. Mimeo., 1575. 48 pp. (16,500)

Bartow, Virgina, Ph.D., Assistant Professor of Chemistry

ARTICLES:

Opportunities for women in chemistry. *Trans. Ill. Acad. Sci.,* 33:98-99. (1000)

REVIEWS:

Chemical publications, their nature and use, by M. G. Mellon (2d ed.). *J. Chem. Educ.,* 17:600. (250)

Bauer, Edward Ezra, M.S., C.E., Assistant Professor of Civil Engineering

ARTICLES:

Mechanical analysis of soils. *Proc. Purdue Conf. on Soil Mechanics and Its Applications,* pp. 161-73. (3000)

Bauer, Frederick Charles, Ph.D., Professor of Soil Fertility

ARTICLES:

Drainage and its relation to permanent fertility. *Ill. Soc. Eng.,* 15:2:3. (3500)

Bayley, William Shirley, Ph.D., Professor of Geology, *Emeritus*

BOOKS:

Pre-cambrian geology and mineral resources of the Delaware water gap and Easton quadrangles, New Jersey and Pennsylvania. *U.S. Geol. Surv. Bul.,* 920. v + 98 pp.

Beadles, Jessie Rachel, B.S., Assistant in Animal Nutrition

See H. H. Mitchell.

Bean, Haldane Wesley, M.S., Assistant in Animal Husbandry

See R. R. Snapp.

Beck, William Carl, A.B., M.D., Associate in Surgery

ARTICLES:

Peripheral arterial embolism. *Amer. J. Surg.,* 50:1:39-49.

Timing the operative intervention for acute intestinal obstruction. *Arch. Surg.,* 42: 581-97.

Acute non-malignant perforation of the colon. *Surgery,* 7:674-85.

With G. DeTakats:

Review of neurocirculatory diseases. *Arch. Int. Med.,* 66:707.

Bedinger, Paul Lincoln, M.D., M.S., Instructor in Medicine

See R. W. Keeton.

Berdahl, Clarence Arthur, Ph.D., Professor of Political Science

BOOKS:

With J. M. Mathews:

Documents and readings in American government (rev. ed.). Macmillan Co., N.Y., 1940. xx + 862 pp.

ARTICLES:

Confirmation by the Senate. *Dict. Amer. Hist.,* 2:15. (200)

Congressional districts. *Ibid.,* 2:153. (275)

Equal rights party. *Ibid.,* 2:222. (150)

Congressional filibuster. *Ibid.,* 2:272. (500)

Floor leader. *Ibid.,* 2:286-87. (300)

The Hague court of arbitration. *Ibid.,* 3:1-2. (450)

The Hague peace conferences. *Ibid.,* 3:2. (250)

Interstate compacts. *Ibid.,* 3:144-45. (500)

LaFollette (Progressive) Party. *Ibid.,* 3:227-28. (350)

The Lorimer case. *Ibid.,* 3:302. (150)

United States and mandates. *Ibid.,* 3:331. (300)

New nationalism. *Ibid.,* 4:107. (150)

Notification speech. *Ibid.,* 4:153. (150)

The Progressive movement. *Ibid.,* 4:356. (450)

"Salt River." *Ibid.,* 5:19. (175)

State chairman. *Ibid.,* 5:165. (150)

Steering committee. *Ibid.,* 5:181. (300)

Party whip. *Ibid.,* 5:456. (200)

The Yap mandate. *Ibid.,* 5:502-03. (350)

REVIEWS:

Scandinavia: The background for neutrality, by Alma L. Olson. *Amer. J. Internat. Law,* 34:3:537-39. (750)

American neutrality: trial and failure, by C. G. Fenwick. *Ibid.,* 34:4:755. (600)

The quest for peace since the World War, by W. E. Rappard. *Amer. Pol. Sci. Rev.,* 34:4:804-06. (1000)

REVIEWS (*continued*)

Documents in American foreign relations, ed. by S. Shepard Jones and Denys P. Myers. *Ibid.,* 35:1:179-80. (450)

Berg, Max, M.S., M.D., Associate in Pathology, assigned to Medicine part time

ARTICLES:

With A. Mayne and W. F. Petersen:

Variability of blood pH and its association with meteorological factors. *Amer. J. Physiol.,* 130:9-21. (4000)

Black, Max, Ph.D., Professor of Philosophy

REVIEWS:

Essai sur l'incompréhension mathématique, by R. Dugas. *Math. Gaz.,* 23:260:223-25. (1200)

Blair, Glenn Myers, Ph.D., Assistant Professor of Education

ARTICLES:

Types of provisions for children of superior ability. *Yrbk. Dept. Elemen. Sch. Principals N.E.A.,* 19:6:380-87. (3200)

Remedial-reading programs in senior high schools. *Sch. Rev.,* 49:1:32-41. (5000)

The one hundred books most enjoyed by retarded readers in senior high schools. *Engl. J.,* 30:1:42-47. (2000)

An experiment in vocabulary building. *J. Higher Educ.,* 12:2:99-101. (1600)

Blanchard, William Oscar, Ph.D., Professor of Geography

ARTICLES:

The Panama Canal zone. Pages 123-150 in *The American Empire.* Univ. Chicago Press, 1940. (800)

An examination for the geography teacher. *Ill. Bul. Geog.,* 2:4:3. (250)

Do you know your Illinois climate. *Ibid.,* 2:4:5. (250)

A geographical museum. *J. Geog.,* 40:117. (250)

The curious Caspian. *Newsmap Mag.,* 2:7: 14-15. (1560)

Gibralter: the rock and the strait. *Ibid.,* 3:2:2-6. (1600)

REVIEWS:

Suez and Panama, by Andre Siegfried (tr. by H. H. and Doris Hemming). *J. Geog.,* 40:80. (250)

Blatt, Maurice Lamm, M.D., D.Sc., Professor of Pediatrics

ARTICLES:

With M. Zeldes and A. F. Stein:

Chickenpox following contact with herpes zoster. *J. Lab. Clin. Med.,* 25:9:951-55. (2150)

With R. Cohen:

Urine collector for female infants. *Amer. J. Dis. Children,* 60:897-99. (400)

With E. Harris, H. Jacobs, and M. Zeldes:

An evaluation of enzyme treated milk in infant feeding. *J. Pediatrics,* 17:4:435-47. (4350)

With H. Jacobs, J. Murphy, and M. Zeldes:

The addition of homogenized vegetables to the diet of the young infant. *Arch. Ped.,* 58:40-47. (2100)

With M. Zeldes:

Intersex in a premature infant. *Urol. Cutan. Rev.,* 45:2. (850)

Survey of milk modifications. *J. Amer. Diet. Assoc.,* 17:2. (2600)

Blickensdorfer, Philip, Ph.D., Instructor in Pharmacology, Materia Medica, and Therapeutics

ARTICLES:

With J. A. Bone:
The action of epine phrine injected into the pericardial sac. *J. Lab. Clin. Med.,* 26: 297-99. (200)

See also H. A. McGuigan.

Blodgett, Ralph Hamilton, Ph.D., Associate Professor of Economics

BOOKS:

Principles of economics. Farrar and Rinehart, N.Y., 1941. 632 pp.
Principles of economics. Stipes Pub. Co., Champaign, 1940. 450 pp.

ARTICLES:

Fundamentals of economics and the business of banking. *Opinion and Comment,* Aug. 6, 1940, pp. 22-30. (4400)

Bloom, Louis Richard, M.S., Research Assistant in Electrical Engineering

See J. T. Tykociner.

Bogart, Ernest Ludlow, Ph.D., Professor of Economics, *Emeritus*

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